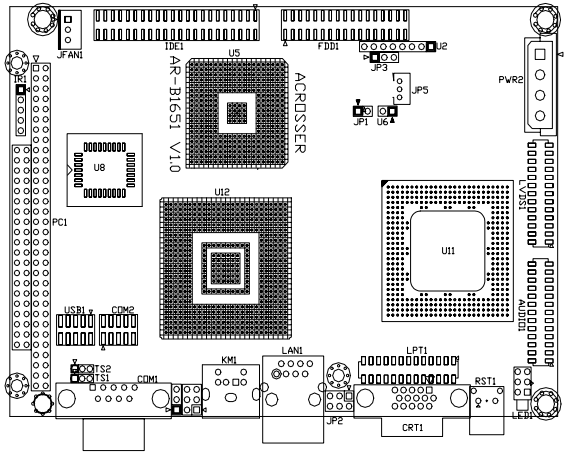
# AR-B1651 MANUAL

Version 1.02

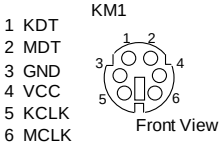
## 1. SETTING UP THE SYSTEM




### 1.1 PACKING LIST

- The quick setup manual
- 1 AR-B1651 CPU board
- 1 Hard disk drive adapter cable
- 1 Floppy disk drive adapter cable
- 1 Parallel port adapter cable mounted on one bracket
- 1 Software utility CD
- 1 RS-232 and PS/2 Mouse & Keyboard interface cable mounted on bracket

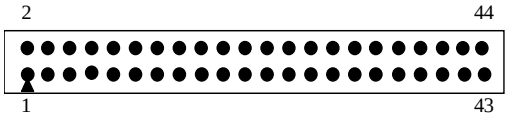
### 1.2 KEYBOARD & MOUSE CONNECTOR (KM1)




### 1.3 SDRAM SOCKET 144 PIN (DIMM1)

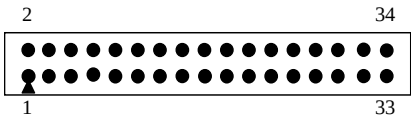
### 1.4 HARD DISK (IDE) CONNECTOR (IDE1)

※ 44 Pin Hard Disk Connector

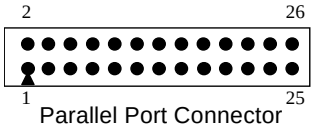



### 1.5 FDD PORT CONNECTOR (FDD1)

※ 34 Pin Floppy Connector

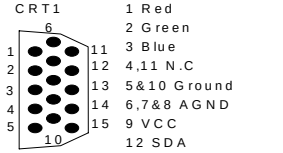



### 1.6 PARALLEL PORT CONNECTOR 1 (LPT1)



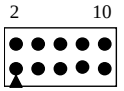

Parallel Port Connector

### 1.7 CRT CONNECTOR (CRT1)



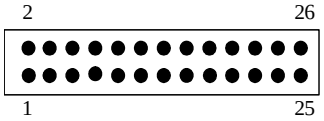

1 Red
2 Green
3 Blue
4,11 N.C
5&10 Ground
6,7&8 AGND
9 VCC
12 SDA
13 Horizontal Sync
14 vertical Sync
15 SCL

### 1.8 USB CONNECTOR (USB1)



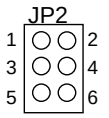

1.VCC1 5.DATA1+
2.VCC2 6.DATA2+
3.DATA1- 7.8.GND
4.DATA2- 9.10.GND

### 1.9 LVDS HEADER (LVDS1)



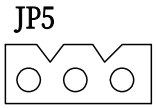

| PIN (LVDS1) | FUNCTION | PIN (LVDS1) | FUNCTION |
|---|---|---|---|
| 1 | TXOUT0- | 2 | GND |
| 3 | TXOUT0+ | 4 | GND |
| 5 | TXOUT1- | 6 | VTX5 |
| 7 | TXOUT1+ | 8 | VTX5 |
| 9 | TXOUT2- | 10 | NC |
| 11 | TXOUT2+ | 12 | GND |
| 13 | TXCLK- | 14 | GND |
| 15 | TXCLK+ | 16 | VTX12 |
| 17 | TXOUT3- | 18 | VTX12 |
| 19 | TXOUT3+ | 20 | GND |
| 21 | VTKBP | 22 | NC |
| 23 | VTX5 | 24 | NC |
| 25 | VTX5 | 26 | NC |

### 1.10 LVDS VOLTAGE SELECT (JP2)




| JUMPER | VOLTAGE | NOTE |
|---|---|---|
| 1-3 ON<br>2-4 ON | VCC | |
| 3-5 ON<br>4-6 ON | VCC3 | Factory Preset |

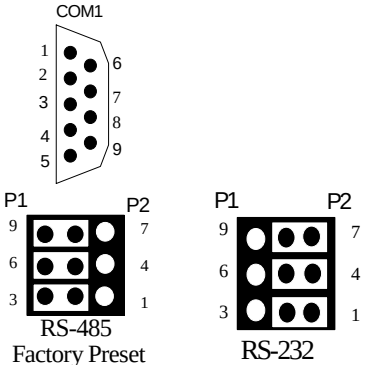
## 1.11 PANEL BACKLIGHT CONNECTOR (JP5)




1. +12V
2. GND
3. Enable Panel Backlight

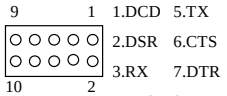
## 1.12 COM1

- USED RS232 & RS485




## 1.13 COM2

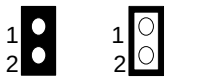
- Only RS232




1.DCD 5.TX
2.DSR 6.CTS
3.RX 7.DTR
4.RTS 8.RI
9.GND

## 1.14 RS-485 TERMINATOR SELECT (JP1)

When there is only one line the setting should be left off, if multiple blocks are used on a single line this should be set to “ON” in order to properly terminate the connection for better transmission of data




Factory Preset

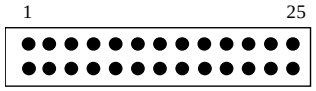
## 1.15 RS-485 HEADER (JP3)

1 N485+
2 N485-
1 2 3 3 GND

## 1.16 TOUCH SCREEN CONNECTOR (TS2)

1 RXDF
2 TXDF
1 2 3 3 GND

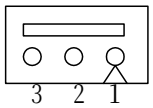
## 1.17 26-PIN AUDIO CONNECTOR (AUDIO1)




| PIN | Signal | PIN | Signal |
|---|---|---|---|
| 1 | AUXAL | 2 | LINEL |
| 3 | AUXAR | 4 | LINER |
| 5 | VCC | 6 | Not Used |
| 7 | AUDIOL | 8 | MICPH |
| 9 | AUDIOR | 10 | PCSPKO |
| 11 | GND | 12 | GND |
| 13 | Not Used | 14 | Not Used |
| 15 | GND | 16 | GND |
| 17 | Not Used | 18 | Not Used |
| 19 | Not Used | 20 | Not Used |
| 21 | Not Used | 22 | Not Used |
| 23 | Not Used | 24 | Not Used |
| 25 | GND | 26 | GND |

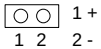
Note: the connector does not contain the GAME (MIDI) port signal. When AR-B1651 audio card is used with this CPU board, the GAME port function is not supported.

## 1.18 CPU FAN POWER CONNECTOR (JFAN1)



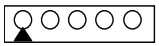

1. GND
2. +12V
3. Fan Speed

## 1.19 EXTERNAL BUZZER (U6)



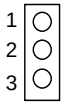
1 +
1 2 2 -

## 1.20 INFRARED CONNECTOR (IR1)




1.VCC
2.NC
3.IR DATA RECEIVER
4.GND
5.IR DATA TRANSFER

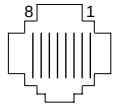
## 1.21 LED(J1)




1: Power LED
2: LAN
3: HDD LED (IDE1)

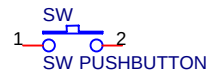
## 1.22 NETWORK SETTING

- RJ-45 CONNECTOR (LAN1)

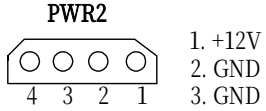



| PIN | FUNCTION |
|---|---|
| 1 | TPTX+ |
| 2 | TPTX - |
| 3 | TPRX+ |
| 4 | Not Used |
| 5 | Not Used |
| 6 | TPRX - |
| 7 | Not Used |
| 8 | Not Used |

## 1.23 RESET BUTTON (RST1)



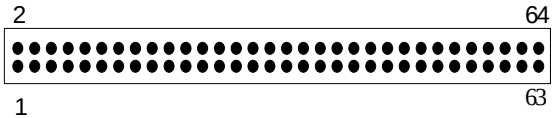
### 1.24 POWER CONNECTOR (PWR2)



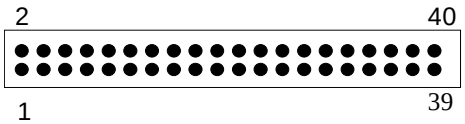

1. +12V
2. GND
3. GND
4. +5V

### 1.25 PC/104 CONNECTOR (PC1)

(1) 64 Pin PC/104 Connector A&B




(2) 40 Pin PC/104 Connector C&D




Note:

If the content in setting is inconsistent with the CD-ROM, please refer to the setting as the priority.